USDA United States Department of Agriculture
**Forest Service**
**Mt. Baker-Snoqualmie National Forest**
**Darrington Ranger District**
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October 18, 2017

**DARRINGTON ROAD REPAIR PROJECTS**

Heavy rains during the 2016 winter damaged numerous roads and trails across the Mt. Baker-Snoqualmie National Forest, including several roads within the Darrington Ranger District. The Forest is working to restore access for Forest users by repairing roads that have experienced storm-related damage while also maintaining aquatic and wildlife habitat standards.

Proposed actions include the repair or replacement of damaged or plugged culvert pipes, construction of mechanically stabilized earth retaining wall, and excavation and placement of roadway surface and embankment material. The projects are located on NFS lands in Snohomish County, Washington, see Table 1 and Figure 1 for specific project locations.

The proposed repairs have been included in the "Emergency Repair of Federally Owned Roads" program, or ERFO, administered by the Federal Highways Administration (FHA). The FHA is the lead Federal agency for repair efforts and the Forest is working with FHA to design the repairs for these damaged roads. Planning and design work is underway and repair work is proposed to start in summer 2018

**Table 1. Summary table of proposed road repair projects (FHA=Federal Highways Administration).**

| Project Name | Legal Description |
|---|---|
| Peekaboo Road (FSR 2083) at MP 0.1 | T 31 N, R 10 E, S 23; Snohomish Co., WA |
| Rat Trap Pass Road (FSR 27) at MP 6.9 | T 31 N, R 11 E, S 3; Snohomish Co., WA |
| Upper Tenas Creek Bridge (FSR 2660) at MP 4.2 | T 33 N, R 11 E, S 21; Snohomish Co., WA |
| FSR 2810 at MP 2.3 | T 32 N, R 9 E, S 11; Snohomish Co., WA |
| Red Bridge Campground Road (FSR 4036) at MP 0.1 | T 30 N, R 9 E, S 21; Snohomish Co., WA |
| Sunrise Mine Road (FSR 4065) at MP 1.15 | T 29 N, R 10 E, S 2; Snohomish Co., WA |
| Deer Creek Road (FSR 4052) at MP 2.2 | T 30 N, R 10 E, S 7; Snohomish Co., WA |
| Deer Creek Road (FSR 4052) at MP 2.55 | T 30 N, R 10 E,S 7; Snohomish Co., WA |
| Deer Creek Road (FSR 4052) at 3.0 | T 30 N, R 9 E, S 6; Snohomish Co., WA |
| Deer Creek Road (FSR 4052) at 3.7 | T 30 N, R 9 E, S 1; Snohomish Co., WA |

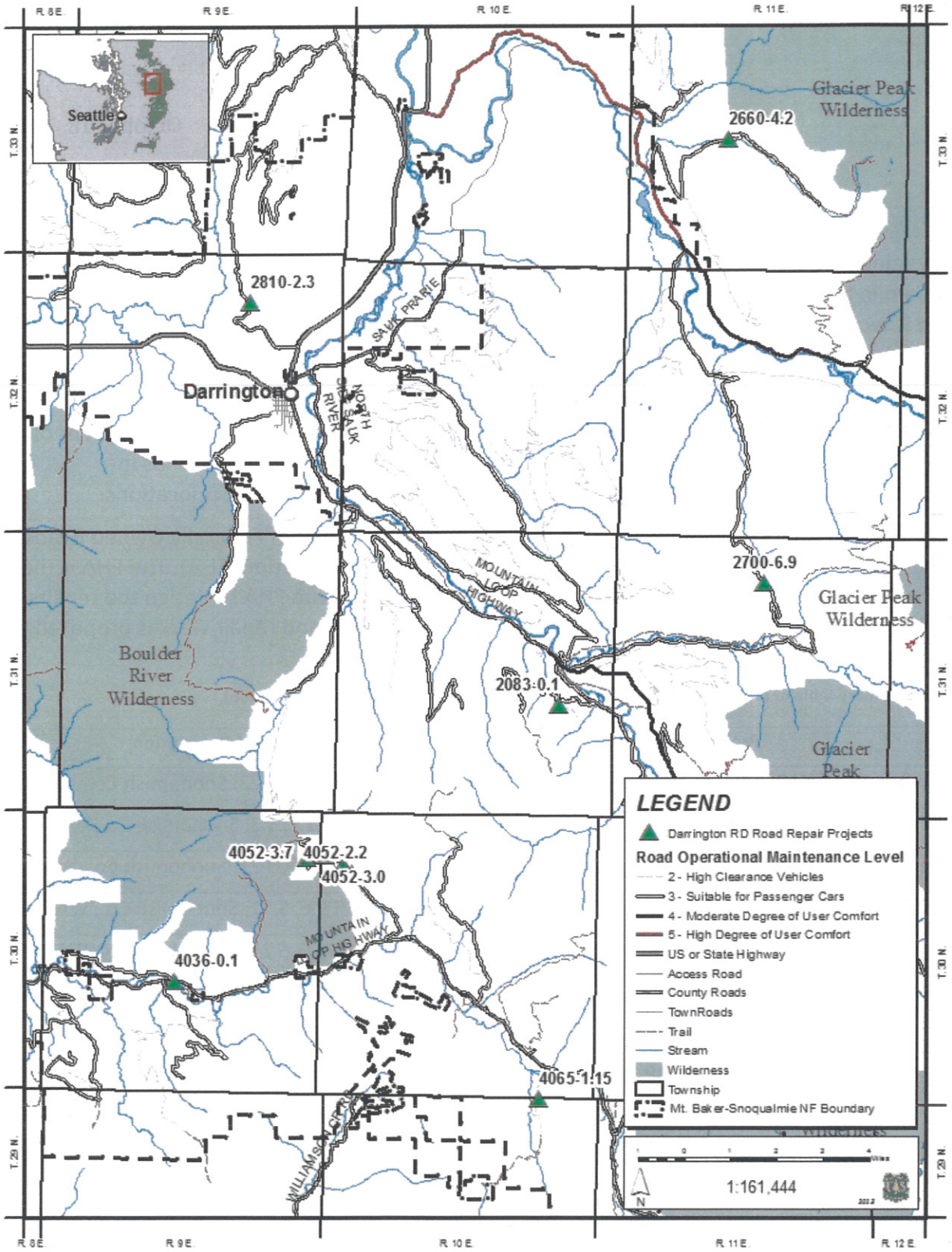


**Figure 1. Map of Darrington RD road repair projects.**

## Description of Projects

### Peekaboo Road (FSR 2083) at MP 0.1

Two slides 70-feet apart have deposited storm debris on the roadway. Debris covers the roadway 9-feet deep for 132-feet at one site and 2-3-feet deep for 260-feet at the other site. Proposed repairs would include removing remaining debris, resurfacing 300 feet of road, and replacing culverts (one 36-inch pipe and one 48-inch pipe).

**Figure 2.Peekaboo Road (FSR 2083) at MP 0.1**

### Rat Trap Pass Road (FSR 27) at MP 6.9

Storm debris flowed into the roadway, plugging a culvert, depositing debris on the road, and eroding the roadway. Proposed repairs would blade and shape 800-feet of road, regrade the road for 236-feet, re-shape ditch scour for 253-feet, and resurface 800-feet of the road. Repairs would also include construction of a mechanically stabilized earth (MSE) retaining wall. Existing culverts would be cleaned out and one new culvert installed.

**Figure 3. Rat Trap Pass Road (FSR 27) at MP 6.9**

### Upper Tenas Creek Bridge (FSR 2660) at MP 4.2

Tenas Creek scoured away the toe of the roadway embankment and caused failure of the road and bridge approach. Proposed repairs would armor the west abutment of the bridge with heavy riprap and replace the approach embankment.

**Figure 4. Upper Tenas Creek Bridge at MP 4.2**

### FSR 2810 at MP 2.3

Damage at this site includes failure of the roadway embankment. Work proposed includes placement of geotextile and a riprap armored slope to repair the embankment, installation of an underdrain, and asphalt repavement.

**Figure 5. FSR 2810 at MP 2.3**

### Red Bridge Campground Road (FSR 4036) at MP 0.1

The river eroded the road shoulder. Proposed work would include repair and stabilization of the eroded road shoulder using logs, rootwads, and riprap. The road alignment would also be shifted away from the river as needed to integrate the repair into the adjacent banks.

**Figure 6. Red Bridge Campground Road (FSR 4036) at MP 0.1**

## Sunrise Mine Road (FSR 4065) at MP 1.15

High water flows caused the road embankment above the "over-flow" culvert to fail. Storm debris also accumulated at the outlet of main culvert. Repairs would include replacing the failed road embankment and removing debris blocking the main culvert outlet.

**Figure 7. Sunrise Mine Road (FSR 4065) at MP 1.15**

## Deer Creek Road (FSR 4052) at MP 2.55

A debris slide damaged 100-feet of road above the ford as well as the ford. Proposed repairs would remove slide debris from the culvert inlet, re-establish the roadbed and replace 275' of aggregate surfacing. The ford would be repaired at the outlet by removing the bottom 4 feet of the structure and replacing it with a formed concrete pad runoff.

**Figure 8. Deer Creek Road (FSR 4052) at MP 2.55**

### Deer Creek Road (FSR 4052) at 3.0

High flows overtopped the existing 9' diameter culvert, causing the road bed above the culvert to wash away. Proposed repairs would replace fill, re-establish the roadbed, and replace the aggregate surfacing. Trees blocking the culvert outlet would be removed, large riprap would be placed under the scoured eroded portions of the culvert. At the culvert inlet, damaged riprap would be repaired to original lines and grades. Work would also include constructing embankment fill with riprap slope rock from onsite nearby materials.

**Figure 9. Deer Creek Road (FSR 4052) at 3.0**

### Deer Creek Road (FSR 4052) at 3.7

Rainfall caused slide material to run down slope onto the road. Proposed repairs would remove slide material and restore drainage through installation of a new cross drain. Slide material would be hauled to a nearby designated waste area and stockpiled.

**Figure 10. Deer Creek Road (FSR 4052) at 3.7**

Your feedback on any of the proposed projects is welcome. Your comments would be most helpful if received by November 17, 2017. Electronic comments are preferred and should be submitted with the subject line "Darrington Ranger District Road Repair Projects," and as part of the actual e-mail message, or in another readable format such as plain text (.txt), rich text format (.rtf), .pdf, or Word (.doc or .docx) to: comments-pacificnorthwest-mtbaker-snoqualmie-darrington@fs.fed.us. Comments may also be mailed or dropped off in person to: Peter Forbes, District Ranger, Darrington Ranger District, 1405 Emens Avenue North, Darrington, WA 98241. Office hours for submitting hand-delivered comments are 8:00 a.m. – 4:30 p.m. Monday through Friday, excluding holidays. Comments received, including names and addresses of those who comment, will be part of the Project Record and available for public review.

Thank you for your time, we appreciate your continued interest in the management of the Mt. Baker-Snoqualmie National Forest.

Sincerely,

PETER FORBES

District Ranger